

Section 5.2: cont'd

Monday, November 23, 2015
10:28 AM

solve, giving both an exact answer and an approximate answer to 3 decimal places

$$e^{5x} = 157$$

$$5x = \log_e 157$$

$$5x = \ln 157$$

$$x = \frac{\ln 157}{5}$$

} exact answer

$$\approx 1.01125$$

$$\approx 1.011$$

} approx

solve:

$$2e^x = 250$$

$$e^x = 125$$

$$x = \ln 125$$

$$\approx 4.82831$$

$$\approx 4.828$$